

<b>BROOKHAVEN NATIONAL LABORATORY</b> <b>NATIONAL SYNCHROTRON LIGHT SOURCE</b>		<b>Number:</b> LS-SDL-0036	<b>Revision: C</b>
		<b>Effective:</b> 10/25/05	<b>Page 1 of 3</b>
<b>Subject:</b> DUV-FEL Operation Check List			
<b>Prepared By:</b> X.J. Wang	<b>Reviewed By:</b> X.J. Wang	<b>Approved By:</b> J.B. Murphy	

\*Document must contain approved signatures for validity

## BNL DUV-FEL Operation Check List

<b>Experiment Title:</b>	
<b>Operator:</b>	<b>Date:</b>
<b>Machine Warm Up</b>	<input type="checkbox"/> Linac Water pumps on, alarm NORMAL, valves full open <input type="checkbox"/> Gun Water <input type="checkbox"/> AC/AUX Power <input type="checkbox"/> Kly. Filaments <input type="checkbox"/> Gun Heater Tape <input type="checkbox"/> Gun Hutch Interlock <input type="checkbox"/> Laser Room Interlock
<b>Radiation Monitoring Check</b>	<input type="checkbox"/> Chipmunk (three total)* <input type="checkbox"/> Radiation Alarm Display window visible, clock updating (30 seconds)

\*It is allowed if one is malfunction, must be fixed within 24 hrs.

### Machine Operation

<b>Vacuum Valves</b> <input type="checkbox"/> Linac valve <input type="checkbox"/> NISUS Up-stream <input type="checkbox"/> Exp.	<input type="checkbox"/> Linac Tunnel Interlocked <input type="checkbox"/> Radiological Interlock test status current <input type="checkbox"/> Laser Interlock test status current	Gun Temp:
<b>Vacuum Inter.:</b> <input type="checkbox"/> 1. <input type="checkbox"/> 2.		
<b>Vacuum Record</b> (check with posted list)	Tank#1:      W/G#1:      Win A: Tank#2:      W/G#2:      Win B: Tank#3:      W/G#3:      Win C: Tank#4:      W/G#5:      Win E: Tank#5:      Gun:	
<b>Power Supplies</b>	<input type="checkbox"/> Sol. Magnet <input type="checkbox"/> Triplets (3) <input type="checkbox"/> Chicane <input type="checkbox"/> Trim Chicane <input type="checkbox"/> Trim power supplies Dipole magnet (check switch position): Seed mirror position:	
<b>HGHG Magnets</b>	<input type="checkbox"/> NISUS water <input type="checkbox"/> Four-wire Power Supplies <input type="checkbox"/> Pancake Power Supplies <input type="checkbox"/> Dispersion Magnet	
<input type="checkbox"/> Modulator Protect	<input type="checkbox"/> Modulator Reset	<input type="checkbox"/> Modulator Trigger

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### Machine Shutdown Check List

<b>Time:</b>	<b>Operator:</b>	<b>Laser:</b>
<input type="checkbox"/> Set all PFN to zero	<input type="checkbox"/> Kly. Filament to 40%: A. B. C. E.	<input type="checkbox"/> AUX/AC Power off
<input type="checkbox"/> Magnet Power Supplies off	<input type="checkbox"/> Dipole off	<input type="checkbox"/> Gun Heater Tape off
<input type="checkbox"/> Gun Water	<input type="checkbox"/> Vacuum Valves closed	<input type="checkbox"/> NISUS Power Supplies off
<input type="checkbox"/> Linac Water pumps off, alarm to LOCKOUT, valves closed to markers		

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## NSLS REVISION & PERIODIC REVIEW LOG

**Document Number:** LS-SDL-0036

**Subject:** DUV-FEL Operation Check List

> See NSLS Quality Control Coordinator for original revision and review signatures <

### REVISION TABLE

Rev	Description	Date
A	First Issue	3/5/04
B	New klystron E is added	12/17/04
C	Remove the e-beam and laser parameters, which will be in the logbook	10/25/05

### PERIODIC REVIEW TABLE

Complete this table to record the completion of periodic reviews for an existing controlled document. A successful periodic review will reveal the existing document is current, correct, and does not require any revision/change.

#### Document Review Frequency

**2 years**

Rev	Date	Reviewed By (Print):	Signature: